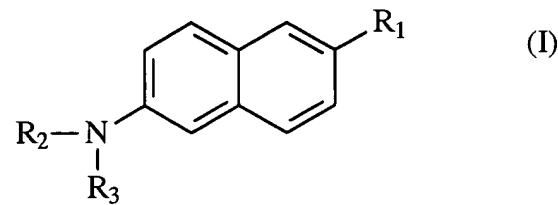


**COMPOSITIONS FOR LABELING β -AMYLOID PLAQUES
AND NEUROFIBRILLARY TANGLES**

ABSTRACT

5 Compositions useful for labeling β -amyloid plaques and neurofibrillary tangles are provided. The compositions comprises compounds of formula (I):



wherein R₁ is selected from the group consisting of -C(O)-alkyl, -C(O)-alkylenyl-R₄, -C(O)O-alkyl, -C(O)O-alkylenyl-R₄, -C=C(CN)₂-alkyl, -C=C(CN)₂-alkylenyl-R₄,

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wherein R₄ is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl; R₅ is a radical selected from the group consisting of -NH₂, -OH, -SH, -NH-alkyl, -NHR₄, -NH-alkylenyl-R₄, -O-alkyl, -O-alkylenyl-R₄, -S-alkyl, and -S-alkylenyl-R₄; R₆ is a radical selected from the group consisting of -CN, -COOH, -C(O)O-alkyl, -C(O)O-alkylenyl-R₄, -C(O)-alkyl, -C(O)-alkylenyl-R₄, -C(O)-halogen, -C(O)NH-alkyl, -C(O)NH-alkylenyl-R₄ and -C(O)NH₂; R₇ is a radical selected from the group consisting of O, NH, and S; and R₈ is N, O or S; and R₂ is selected from the group consisting of alkyl and alkylenyl-R₁₀ and R₃ is alkylenyl-R₁₀, wherein R₁₀ is selected from the group consisting of -OH, -OTs, halogen, spiperone, spiperone ketal, and spiperone-3-yl, or R₂ and R₃ together form a heterocyclic ring, optionally substituted with at least one radical selected from the group consisting of alkyl, alkoxy, OH, OTs, halogen, alkyl-R₁₀, carbonyl, spiperone, spiperone ketal and spiperone-3-yl, and further wherein one or more of the hydrogen, halogen or carbon atoms are optionally replaced with a radiolabel.